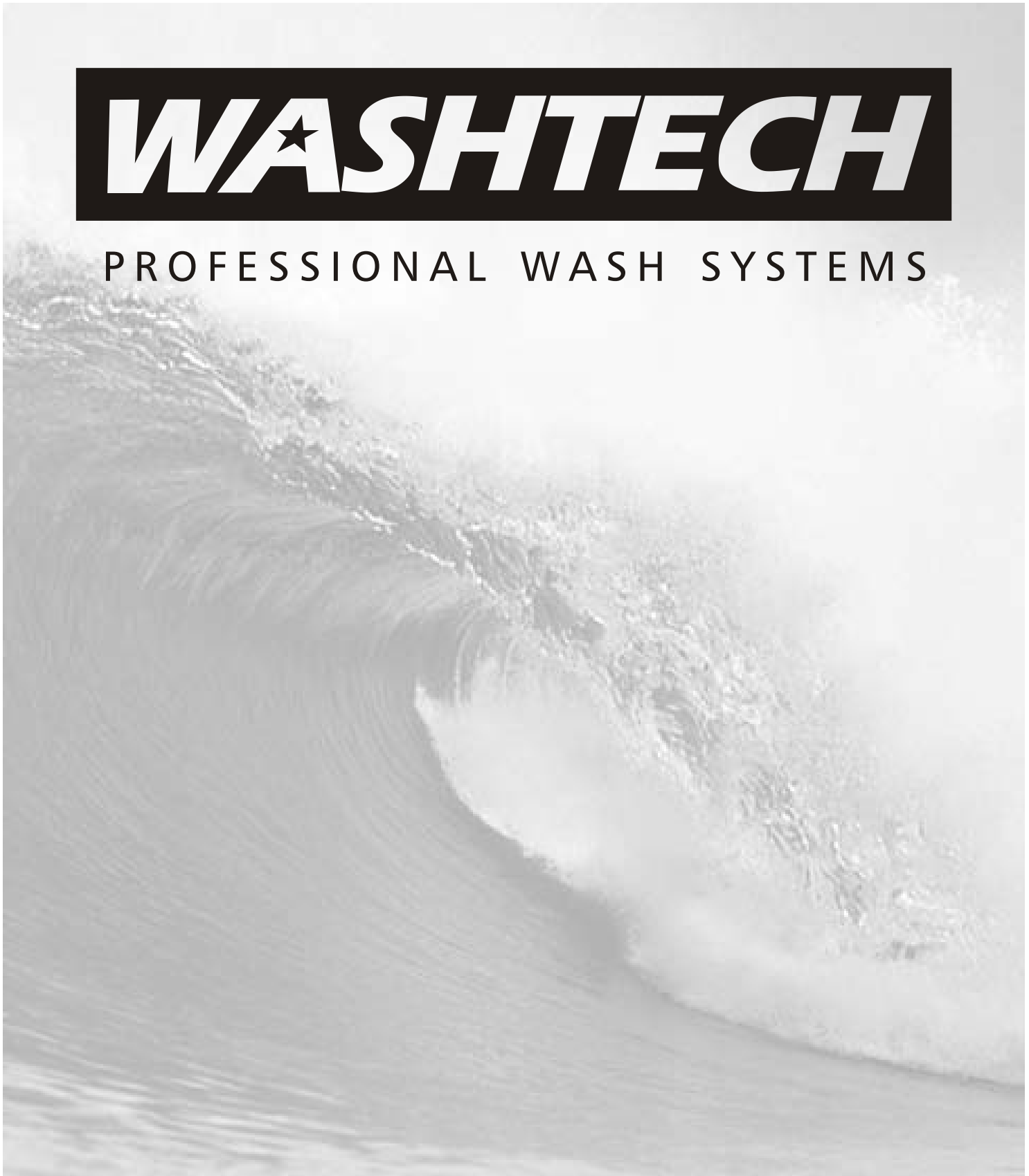
WASHTECH

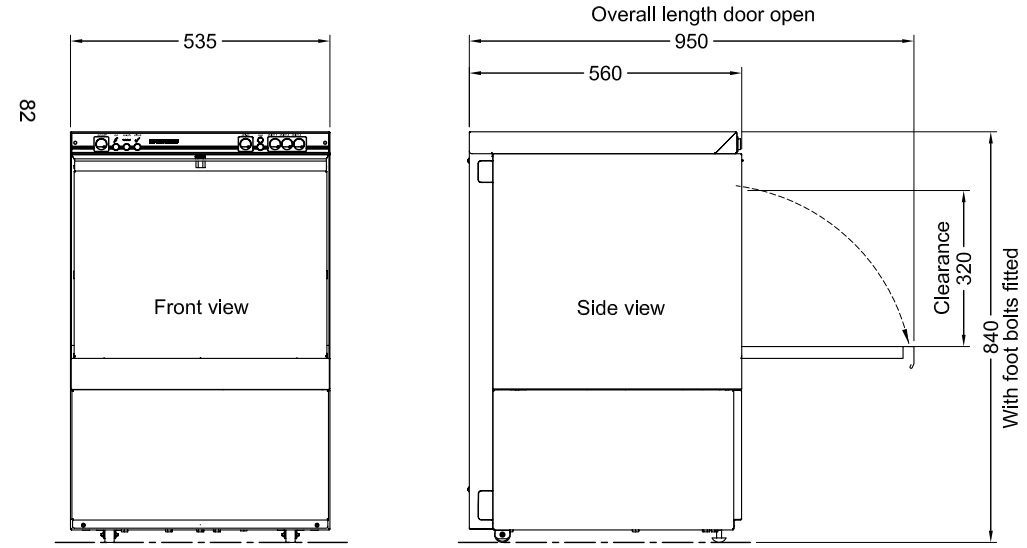
PROFESSIONAL WASH SYSTEMS

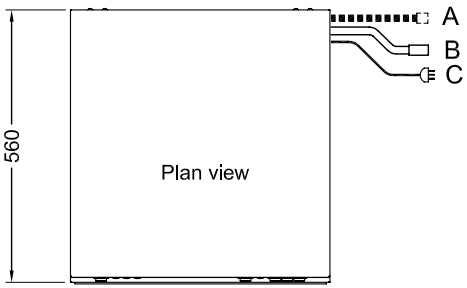


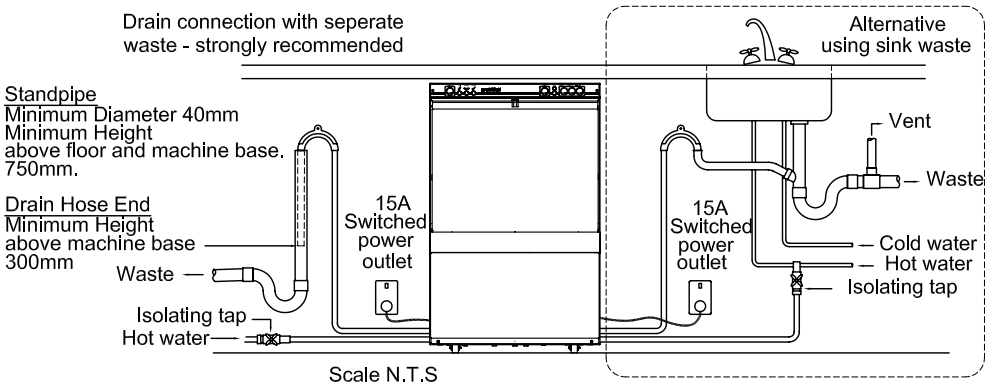
GLV OPERATOR MANUAL

Distributed in Australia by
MOFFAT
Service 1 800 622 216
Parts 1 800 337 963
740 SpringvaleRoad, Mulgrave 3170, Victoria, Tel 03 9518 3888 Fax 03 9518 3818

All dimensions in millimetres







WASHTECH GLV

GLV4 INSTALLATION REQUIREMENTS

Installation personnel must be suitably qualified and ensure compliance with all codes and standards.
Install machine on sound self-draining floor and use adjustable feet to level machine.

Machine dimensions 840H x 535W x 560D (-950D with door open).
Minimum recess dimensions 850H x 600W x 580D.
Legs available to raise machine if required. Specify height to top of machine.

Allow room for detergent to one side of machine or in adjacent cupboard. 20 litre containers require 450H x 250W x 350D but smaller containers are available from many suppliers.

A. WATER SUPPLY

Temperature	- 65° ± 5°C
Pressure	- 200-400KPa = 30-60Psi
Flow rate minimum	- 20 litres per minute
Consumption	- 3 litres per cycle approx.
Connection	- Flexible hose supplied for connection to 20mm (3/4" BSP) hose tap FLUSH SUPPLY LINE before connection. Do not use small diameter plastic supply lines. Line strainer is recommended. Pressure limiter required over 400KPa. Booster pump available option for low pressure. In hard water areas water softening is recommended particularly with glasswashers.

B. WASTE

A drain pump is fitted - hose should be inserted into 40mm standpipe 750mm above floor and machine base.
The drain hose support on the rear of machine may be moved to wall - keep at similar height.
IMPORTANT: The hose end must not be less than 300mm above machine base to prevent syphoning.

C. POWER

Electrical supply required is 15A (240V 50Hz) via switched outlet adjacent to machine which is supplied with cordset including 15A plug.

INSTALLATIONS PROCEDURES:

Remove rear cover and use knockouts located on appropiate side to access connection points/hoses supplied. Ensure all services are connected as above and all internal machine components such as filters, scrap trays are in place. Replace rear panel. Turn on water and switch on power. Shut door. When water sprays from spray arms inside machine - switch machine off. Machine is now ready for use - refer operating instructions.

PERISTALTIC DETERGENT PUMP (Optional)

After the machine is installed remove the lower front panel and you will find a plastic tube which should be lead out of the machine and fed into a container of quality glasswashing detergent. Press detergent pump prime switch to prime inlet and outlet hoses. Stop priming when detergent reaches machine.Pump operates during the wash cycle and is set to run for approximately 10 seconds. Use timer adjusting tool, supplied with instructions, to adjust cam 6 to vary this time. Increase cam gap (away from 0 mark) to increase pumping time.

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Tel (09) 829-0930 Fax (09) 829-0935

Description:	CHECKED BY	ISSUE NO.	Rev.	Issue Date:	Drawing No:
GLV4 INSTALLATION DIAGRAM		1	D	17-03-05	GV40006

DO NOT SCALE - IF IN DOUBT ASK DWG SIZE A3 (390x265)

SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE.

WASHTECH

PROFESSIONAL WASH SYSTEMS

Safe Installation and Use of Wash Equipment

As with all electrical and mechanical equipment dishwashing equipment can be hazardous if installed or operated incorrectly.

Installation

- ✓ Use qualified, skilled personnel
- ✓ Follow installation instructions
- ✓ Connect to correct voltage and supply current
- ✓ Provide fully accessible Electrical Isolation Switch

Training and Supervision

- ✓ Read and Understand the Operating instructions
- ✓ Train all staff.
- ✓ This appliance is not intended for use by young children.
- ✓ Young Children should be supervised to ensure they do not play with the appliance.
- ✓ This appliance is not intended for use by infirm persons without supervision

Hot Surfaces

- ✓ Be aware some surfaces can be hot.

Chemicals

- ✓ Commercial dishwashing detergents are hazardous
- ✓ Read and follow the safety information found on the labels of detergent containers and Material Safety Data Sheets
- ✓ Handle with care
- ✓ Use protective eyewear and clothing if decanting containers

Hot Water

- ✓ Door safety switches are designed for emergency use only.
- ✓ **WAIT** for the green cycle light to go out before opening the door.
- ✓ Wash water is 60°C and contains caustic detergent so **DO NOT** put hands in wash water.

Cleaning

- ✓ **DO NOT** hose down the machine or splash water over the exterior.
- ✓ Watch for broken glass etc when cleaning the inside of the machine especially with glasswashers..

If the supply cord is damaged it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

For further information on any of the above contact

WASHTECH GLV

OPERATING INSTRUCTIONS

START UP

Fit wash pump filter, scrap trays and shut door.
Turn wall and machine power switches ON.
ON light glows red and machine fills automatically.
When the RINSE READY light (tick symbol) and WASH READY light (water symbol) glow amber the machine is ready to run and may be started.

OPERATION

Load rack into machine and shut door.
Press start button (1,2 or 3) for 1,2 or 3 minutes accordingly.
CYCLE light glows green while machine operates.
When CYCLE light goes out, cycle is complete.
Remove rack. Close door.
Note: Machine will not operate unless READY lights are ON.

SHUT DOWN - IMPORTANT - EVERY NIGHT

Open the door and turn DRAIN switch on.
Allow to drain for approximately 2 minutes
Turn DRAIN and POWER switches off.
Remove scrap trays and wash pump filter, rinse clean and replace.

We recommend regular removal and flushing of wash and rinse arms. To remove arm assembly, undo thumbscrew.
To clean wash/rinse arms use a toothpick or paperclip, if necessary, to clear the jets, remove end screws from arms and flush with water/.

Use of correct type and quantities of detergent is essential to the effective operation of this machine. Use only low foam detergents. Contact your chemical supply company to either fit an automatic dispenser or to supply suitable powder detergent to manually add to wash water.

For information on recommended detergent suppliers or local service agents, contact:

Rev 1A
20/5/04

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Service 1 800 622 216
Parts 1 800 337 963
740 SpringvaleRoad, Mulgrave 3170, Victoria, Tel 03 9518 3888 Fax 03 9518 3818

GETTING THE BEST RESULTS FROM YOUR DISHWASHER

1. Hot Water Supply

An adequate supply of water at the correct temperature and pressure is essential for effective operation of your machine. An inadequate hot water supply will result in significant time delays between operating cycles. Refer Installation information for detail. Water softening is recommended in hard water areas - especially for glasswashing.

2. Pre-rinsing

Pre-scraping of dishes is required by Food Hygiene Regulations. The best method is to pre-rinse with warm water with a Fisher Pre-rinse Unit - or alternatively by scraping or dunking in water. Cutlery should be pre-soaked in warm water, preferably containing cutlery pre-soak compound - refer your chemical supplier.

3. Racking Procedures

Do not overload racks or cutlery containers, minimise the overlap of crockery. Cycle times are short and water consumption per cycle low - so there is no advantage in overloading racks.

4. Cycle Times

With multi-cycle machines select cycle 3 initially and switch to faster cycles only if necessary. Note that water consumption does not increase with longer cycles. For best results use the longest cycle whenever possible.

5. Detergent

Use of correct type and quantity of detergent is essential to the performance of the machine. Low foam specialty products are recommended. We strongly recommend that you use a professional dishmachine chemical supplier - and will be pleased to recommend a supplier in your region. Discuss with them the use of cutlery pre soak solution, detergent and drying agent.

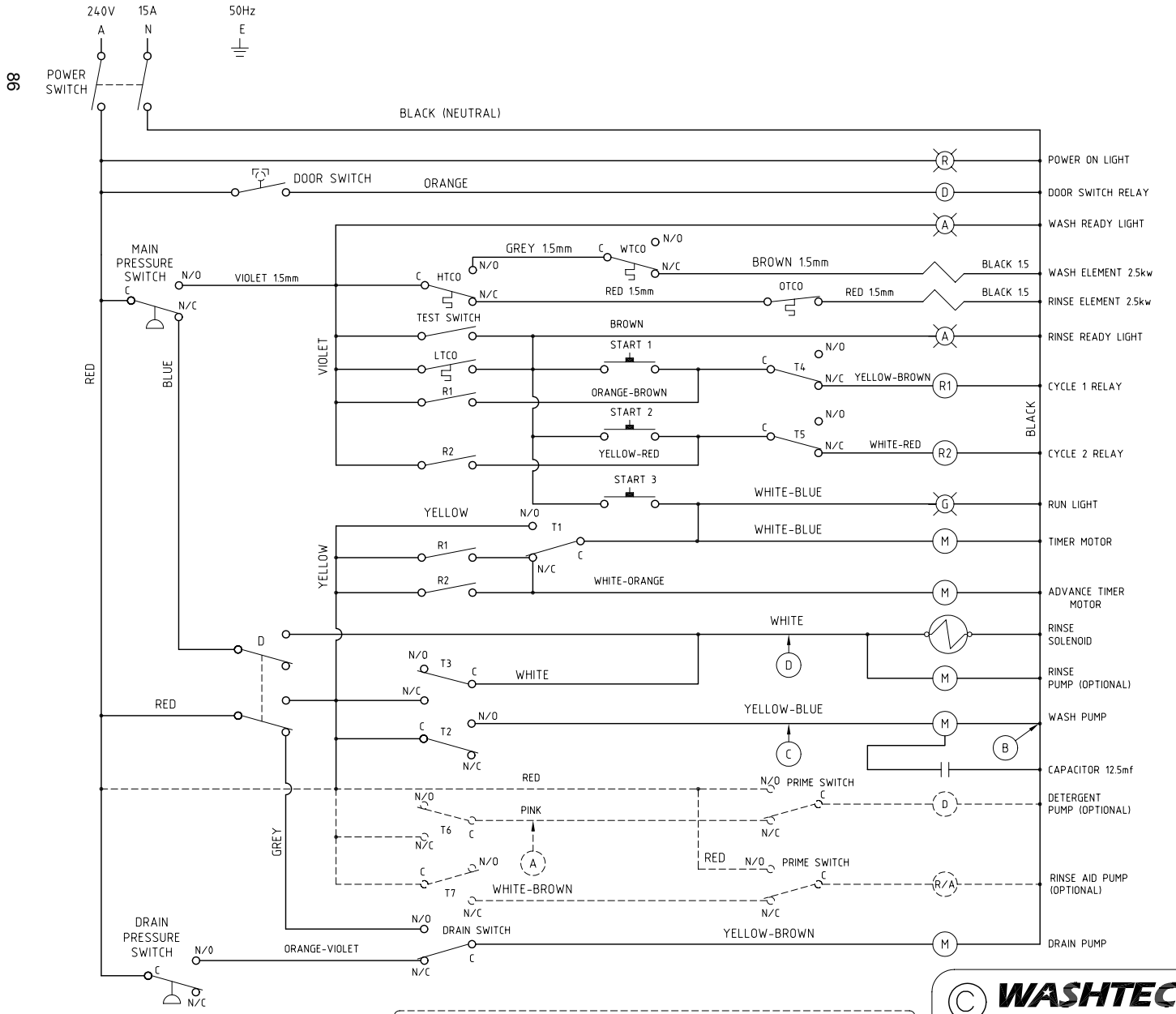
6. Drying

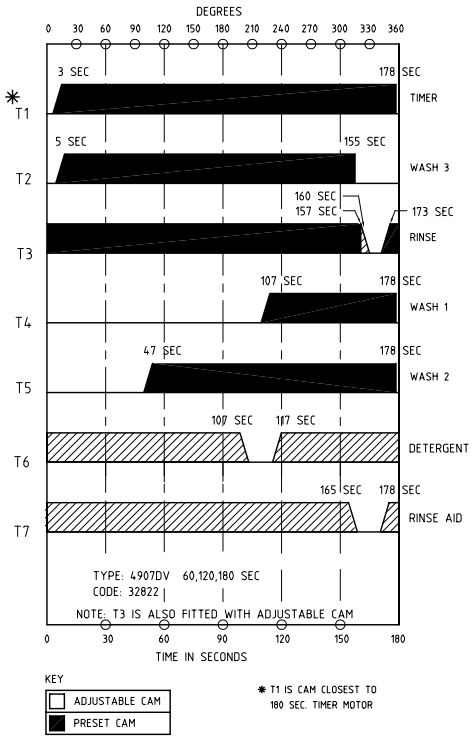
Single tank commercial dishwashers do not have a drying cycle. However, the machines do rinse at high temperatures which promote fast drying particularly when drying agents are used. We recommend prompt removal of the rack from the machine - leave the rack on the bench for 2 to 3 minutes before emptying. This time will be reduced with correct use of drying agent (rinse fluid) which reduces water surface tension and allows water to drain quickly from washware. For advice on drying agents and injectors refer to your chemical supplier.

7. Daily Cleaning

It is essential that the machine is drained and cleaned at the end of each day. Drain the machine then remove, clean and replace filters as per the operating instructions. Regularly check the wash and rinse jets. Remove wash and rinse arms by undoing the central thumbscrew. (DO NOT remove the thumbscrew retainer plate if fitted). Flush arms with water and use a toothpick or paperclip, if necessary, to clear jets. On some models individual jets can be removed for cleaning by twisting anticlockwise. To remove the end plugs on these arms first remove the end jet then withdraw end plug. To flush the machine, leave the drain upstand out, close the door and switch the machine on for about 20 seconds. DO NOT leave the machine unattended during this process.

Date	Change	Issue
18-01-05	REMOVE WASH TEMP CONTROL FROM START CIRCUIT	1-B





DETERGENT AND RINSE AID CONNECTION OPTIONS

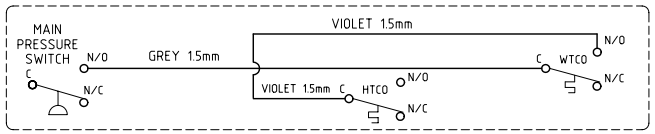
1. Timed Control
   - Connect detergent feeder active to point A
   - Connect detergent neutral to point B

For rinse aid injection. Washtech part no.#C620120 is recomended and operates hydraulically.

2. Conductivity Control
   - Connect detergent feeder active to point C
   - Connect rinse aid feeder active to point D
   - Connect neutrals for r/a and det. to point B

WASH TEMPERATURE CONTROL OPTION

1. Disconnect VIOLET 1.5 wire from PRESSURE SWITCH and reconnect it to WTCO N/O contact
2. Disconnect GREY 1.5 wire from HTCO and reconnect it to N/O contact of PRESSURE SWITCH



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PROFESSIONAL WASH SYSTEMS
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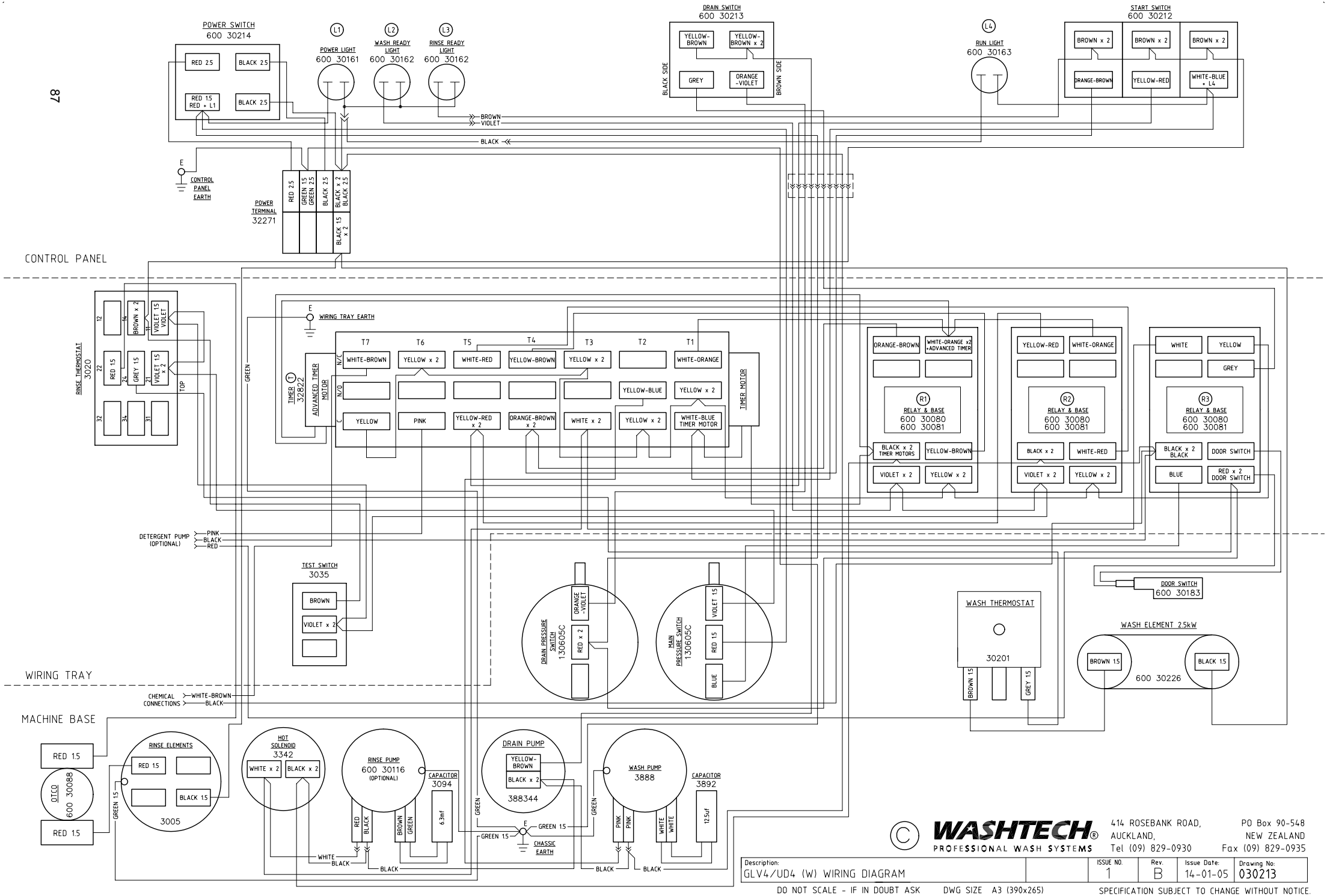
PO Box 90-548 NEW ZEALAND Fax (09) 829-0930

Description: GLV4/UD4 (WASHTECH) SCHEMATIC DIAGRAM		Proj:	Units: mm	ISSUE NO. 1	Rev. B
		Tolerance: REF / Scale: REF	Checked by:	Issue Date: 18-01-05	
Material:	FINISH:	Drawn by: S.F.C	Approved by:	Sheet No.	Drawing No: 030124

Drawing No: 030124

DO NOT SCALE - IF IN DOUBT ASK DWG SIZE A3 (390x265) SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE.



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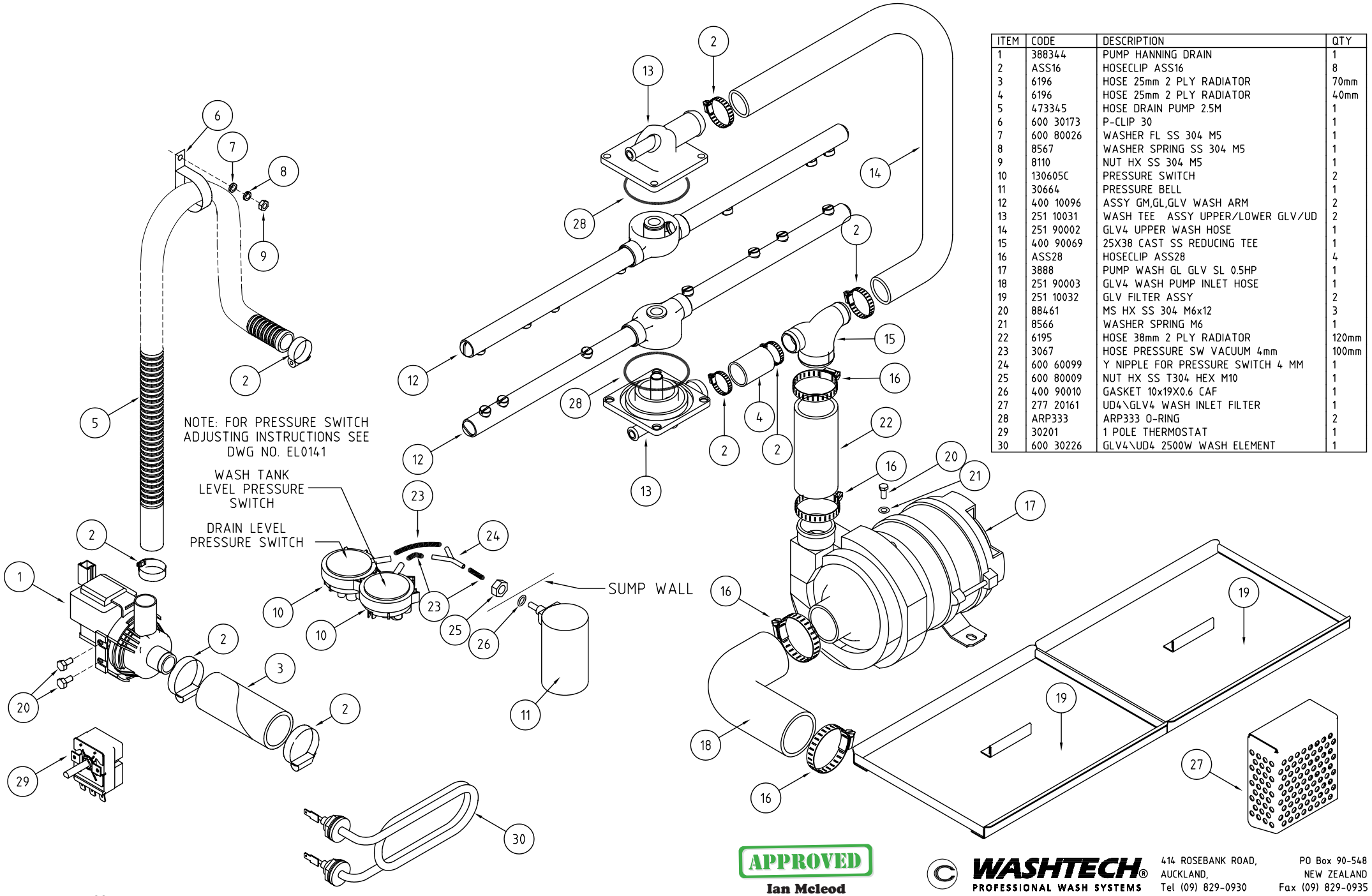
Description:	ISSUE NO.	Rev.	Issue Date:	Drawing No:
GLV4/UD4 (W) WIRING DIAGRAM	1	B	14-01-05	030213

DO NOT SCALE - IF IN DOUBT ASK DWG SIZE A3 (390x265)

SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE.


NOTE: FOR PRESSURE SWITCH ADJUSTING INSTRUCTIONS SEE DWG NO. EL0141
WASH TANK LEVEL PRESSURE SWITCH
DRAIN LEVEL PRESSURE SWITCH
SUMP WALL

ITEM	CODE	DESCRIPTION	QTY
1	388344	PUMP HANNING DRAIN	1
2	ASS16	HOSECLIP ASS16	8
3	6196	HOSE 25mm 2 PLY RADIATOR	70mm
4	6196	HOSE 25mm 2 PLY RADIATOR	40mm
5	473345	HOSE DRAIN PUMP 2.5M	1
6	600 30173	P-CLIP 30	1
7	600 80026	WASHER FL SS 304 M5	1
8	8567	WASHER SPRING SS 304 M5	1
9	8110	NUT HX SS 304 M5	1
10	130605C	PRESSURE SWITCH	2
11	30664	PRESSURE BELL	1
12	400 10096	ASSY GM,GL,GLV WASH ARM	2
13	251 10031	WASH TEE ASSY UPPER/LOWER GLV/UD	2
14	251 90002	GLV4 UPPER WASH HOSE	1
15	400 90069	25X38 CAST SS REDUCING TEE	1
16	ASS28	HOSECLIP ASS28	4
17	3888	PUMP WASH GL GLV SL 0.5HP	1
18	251 90003	GLV4 WASH PUMP INLET HOSE	1
19	251 10032	GLV FILTER ASSY	2
20	88461	MS HX SS 304 M6x12	3
21	8566	WASHER SPRING M6	1
22	6195	HOSE 38mm 2 PLY RADIATOR	120mm
23	3067	HOSE PRESSURE SW VACUUM 4mm	100mm
24	600 60099	Y NIPPLE FOR PRESSURE SWITCH 4 MM	1
25	600 80009	NUT HX SS T304 HEX M10	1
26	400 90010	GASKET 10x19X0.6 CAF	1
27	277 20161	UD4\GLV4 WASH INLET FILTER	1
28	ARP333	ARP333 O-RING	2
29	30201	1 POLE THERMOSTAT	1
30	600 30226	GLV4\UD4 2500W WASH ELEMENT	1

APPROVED
Ian Mcleod

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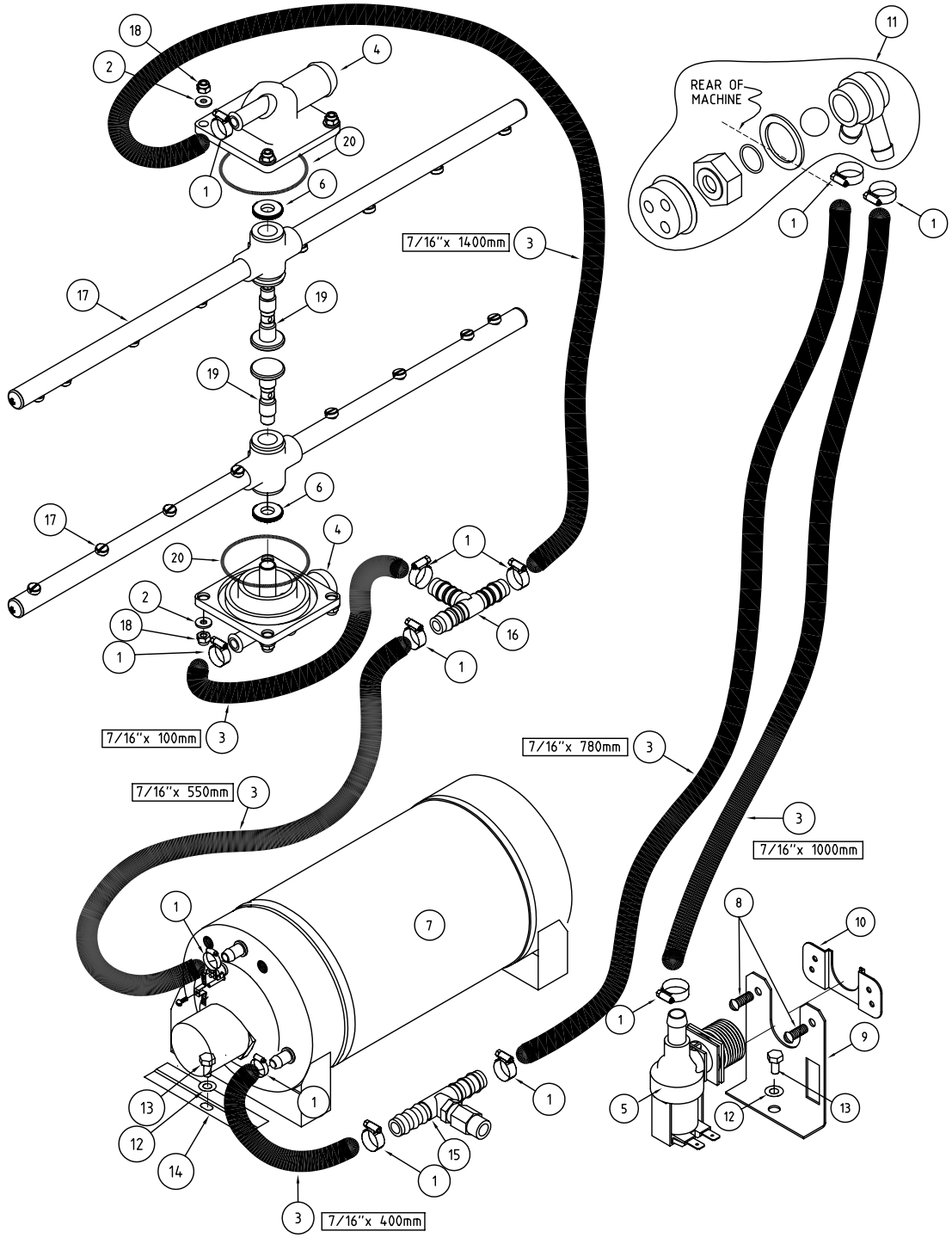
Description:	CHECKED BY	ISSUE NO.	Rev.	Issue Date:	Drawing No:
GLV4 WASH ASSY		1	A	02-09-04	GLV4 0004

DO NOT SCALE - IF IN DOUBT ASK DWG SIZE A3 (390x265) SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE.

WASHTECH GLV4 RINSE ASSY

GLV4 0003 03-12-04 1B



ITEM	CODE	DESCRIPTION	QTY
1	ASS6	HOSECLIP ASS6	12
2	85651	M5 PLAIN SS WASHER	8
3	600 60073	HOTOTAL HOSE 11mm X 19mm	5 mtrs
4	251 10031	WASH TEE SPINDLE ASSY UPPER	2
5	3342	SOLENOID VALVE GL 1 WAY 90o	1
6	400 30074	NUT M2 WASH SPINDLE	2
7	400 10057	ASSY R/TANK 1/2in 1 THERMOSTAT	1
8	8800	MS PAN POZI ZP M4 X 6	2
9	400 20038	BRACKET SOLENOID/DET. PUMP MOUNTING	1
10	1247	INLET SOLENOID SUPPORT	1

ITEM	CODE	DESCRIPTION	QTY
11	600 60053	1/2" VACUUM BREAKER	1
12	8566	WASHER SPRING SS 304 M6	2
13	88461	MS HX SS 304 M6 X 12	2
14	400 20025	BRKT RINSE TANK CLAMP	1
15	400 10072	ASSY RINSE AID TEE NYLON	1
16	600 60059	TEE 1/2x1/2x1/2 NYLON	1
17	400 10092	ASSY GM4/GL4/GLV4 RINSE ARM	2
18	600 80060	NUT NYLOC M5 S/S	8
19	400 30073	M2 RINSE SPINDLE	2
20	ARP333	ARP333 O-RING	2

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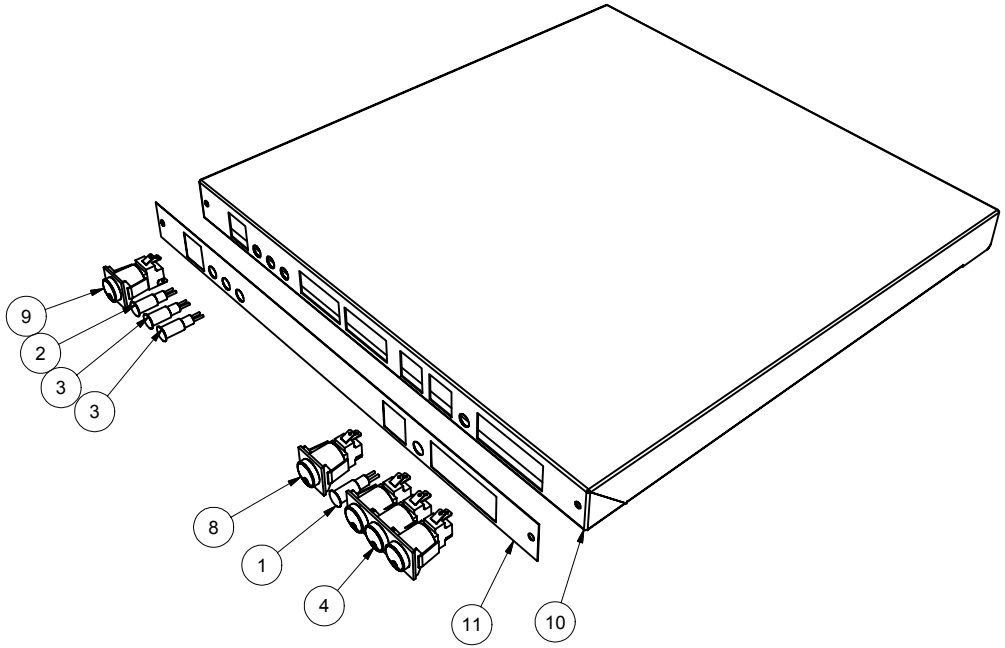
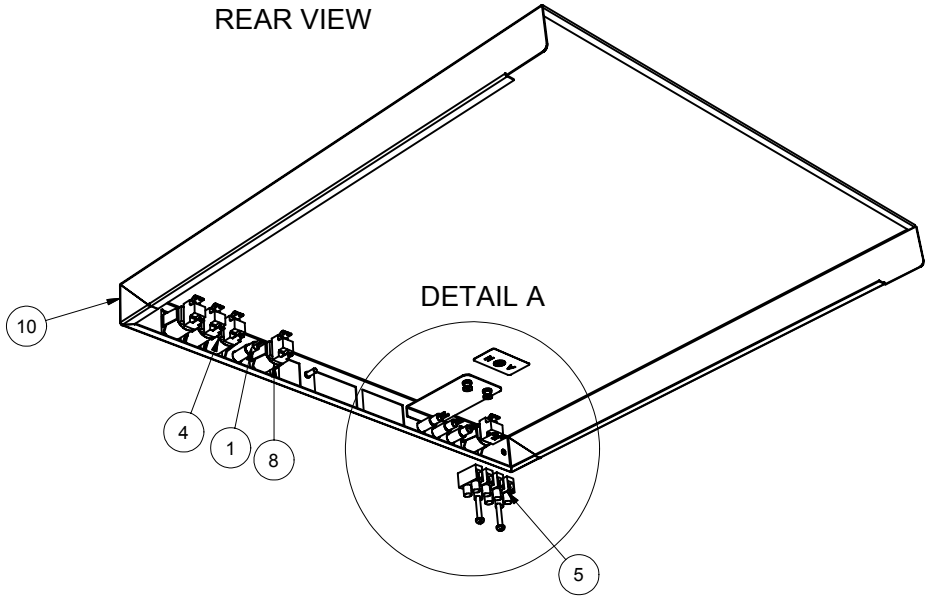
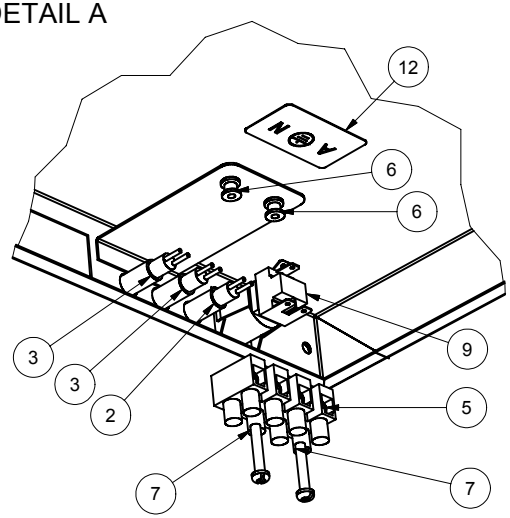
PERSPECTIVE VIEW



REAR VIEW



DETAIL A



Parts List			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	600 30163	LENS & NEON ASSY (GREEN) 12mm	1
2	600 30161	LENS & NEON ASSY (RED) 12mm	1
3	600 30162	LENS & NEON ASSY (AMBER) 12mm	2
4	600 30212	3 BANK 1 POLE MOMENTARY SWITCH	1
5	32271	TERMINAL STRIP 4 WAY	1
6	600 80003	M4 NUTSERT	2
7	8802	MS PAN POZI ZP M4x25	2
8	600 30213	SWITCH DRAIN 2P NO/NC	1
9	600 30214	SWITCH POWER 2P NO/NO	1
10	251 10042 90	GLV4 STARLINE/WASHTECH CONTROL PANEL ASSY	1
11	400 70041	WASHTECH GLV CONTROL PANEL LABEL	1
12	REF	POWER TERMINAL LABEL	1

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Description: GLV4 WASHTECH CONTROL PANEL ASSY
Proj:
Units: mm
Rev: 1-A
Tolerance: +/-0.5
Scale: N.T.S.
Checked by:
Issue Date: 23/09/2004
Material:
Finish: REF
Drawn by: BAE
Approved by:
Sheet No. 1 /1
Drawing No: 251 10004

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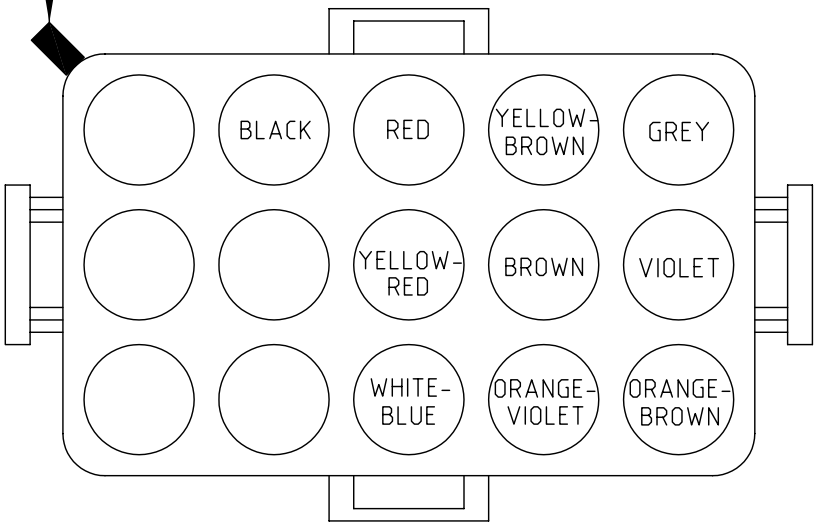
PROJECT:
SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE

PLUG

600 30195
(REAR VIEW)

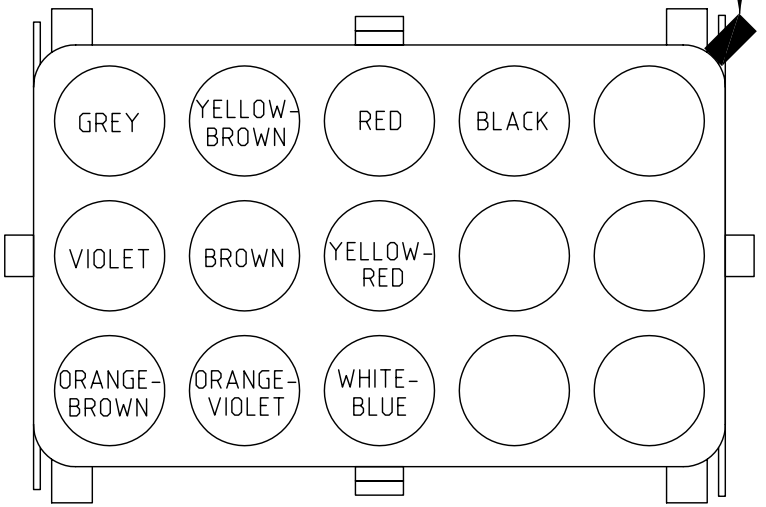
IDENTIFICATION RIB



SOCKET

600 30196
(REAR VIEW)

IDENTIFICATION RIB



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Description: GLV4/UD4 WIRING CONNECTORS ASSY		Proj:		Units: mm	ISSUE NO. 1	Rev. A
		Tolerance: ±0.5 ±1.0°	Scale NTS	Checked by:	Issue Date: 13-07-04	
Material:	FINISH:	Drawn by: D.A.E	Approved by:	Sheet No.	Drawing No: GLV4 0002	

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Drawing No. GLV4 0002